

WO 2005/035515 A1

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
21 April 2005 (21.04.2005)

PCT

(10) International Publication Number
WO 2005/035515 A1

(51) International Patent Classification⁷: **C07D 309/30**

(21) International Application Number:
PCT/IN2003/000333

(22) International Filing Date: 14 October 2003 (14.10.2003)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): LUPIN LIMITED [IN/IN]; 159, CST Road, Kalina, Santacruz (East), Mumbai 400 098 (IN).

(72) Inventors; and

(75) Inventors/Applicants (for US only): VAISHNAV, Sanjay, Kumar [IN/IN]; Lupin Limited, T-142, MIDC, Tarapur Industrial Estate, Boisar, Thane District 401 506, Maharashtra (IN). THAKUR, Bhupendra, Harishchandra [IN/IN]; Lupin Limited, T-142, MIDC, Tarapur Industrial Estate, Boisar, Thane District 401 506, Maharashtra (IN). KADAM, Subhash, Rajaram [IN/IN]; Lupin Limited, T-142, MIDC, Tarapur Industrial Estate, Boisar, Thane District 401 506, Maharashtra (IN).

(74) Agents: SUBRAMANIAM, Hariharan et al.; Subramaniam, Nataraj & Associates, Patent & Trademark Attorneys, E-556, Greater Kailash-II, New Dehli 110 048 (IN).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

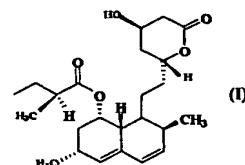
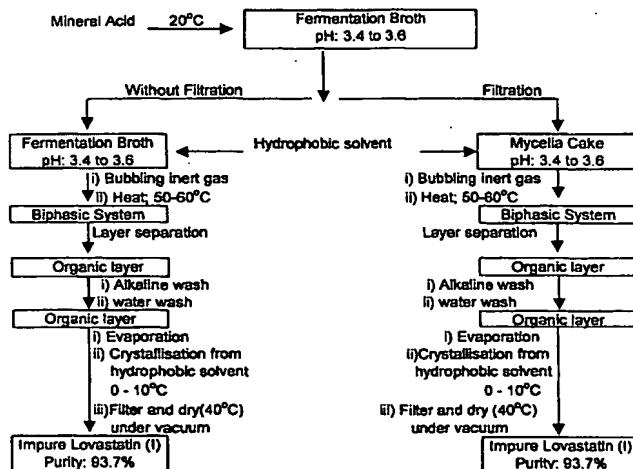
Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: A METHOD FOR THE MANUFACTURE OF LOVASTATIN

A). LACTONISATION OF MEVINOLINIC ACID (II) AND ISOLATION OF PURE LOVASTATIN (I)



(57) Abstract: A method for the manufacture of Lovastatin of formula (I) is disclosed. The method comprises of: A. lactonisation of Mevinolinic acid (II) and isolation of impure Lovastatin (I), B. purification of impure Lovastatin (I), C. optionally, repurification of pure Lovastatin (I) from a mixture of alumina and a water miscible solvent.